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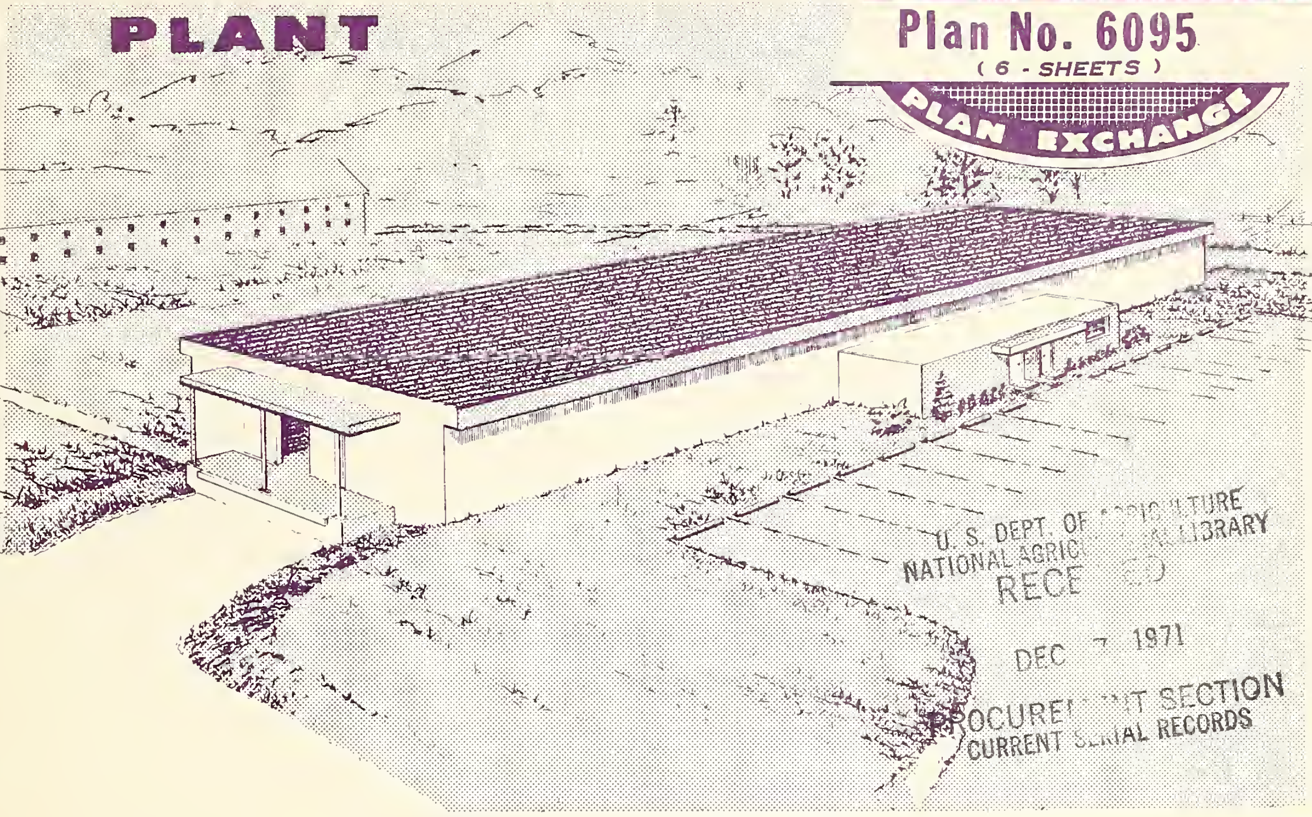
EGG-PROCESSING PLANT

COOPERATIVE FARM BUILDING

Plan No. 6095

(6 - SHEETS)

PLAN EXCHANGE



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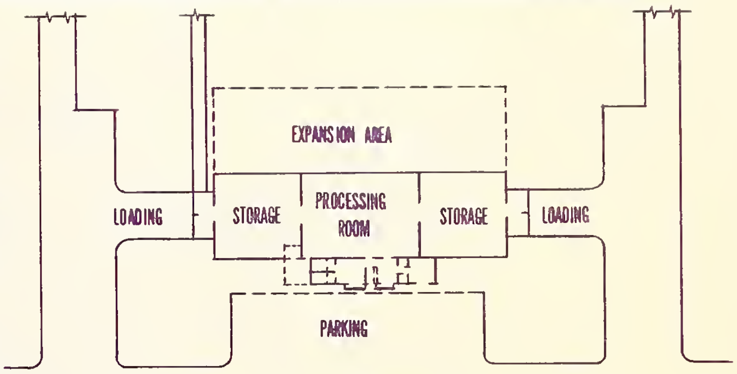
The purpose of a shell-egg processing plant is to cool, grade, and pack eggs for distribution to retailers. The plant is located either on the farm or in a location convenient to several egg-producing farms.

The plan was developed for a 2,400 case-per-week plant. Areas for processing, packaging-materials storage, product storage, offices, employee facilities, and loading docks as shown on the site plan, are needed for this type of operation.

Provision for efficient materials-handling, specified vertical and horizontal dimensions for adequate cubic space, and the layout itself permit efficient use of the facility. To facilitate expansion, the right side and rear of the building have been freed from such permanent fixtures as compressors, septic tanks, drain fields, and loading docks.

The primary design concept provides diaphragm action through proper design of the siding material and its fastenings.



SITE PLAN

Complete working drawings may be obtained from the extension agricultural engineer at your State university. There may be a small charge to cover cost of printing.

If you do not know the location of your State university, send your request to Agricultural Engineer, Extension Service, U.S. Department of Agriculture, Washington, D.C. 20250. He will forward your request to the correct university. ORDER PLAN No. 6095, EGG-PROCESSING PLANT.

Washington, D.C.

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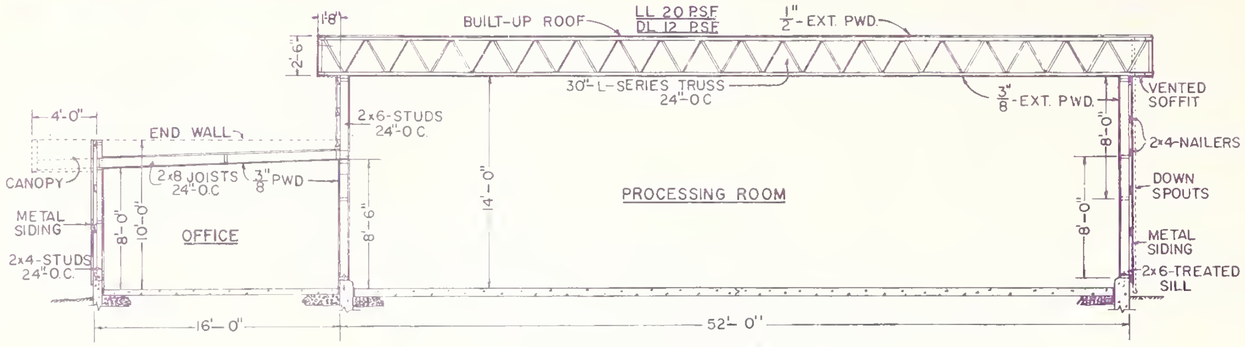
construction features



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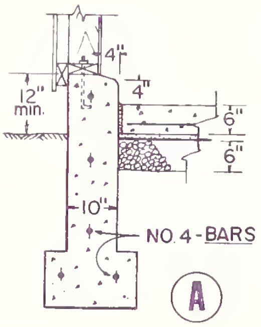
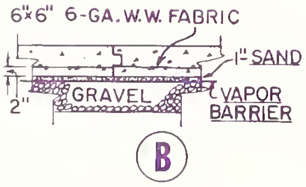


A



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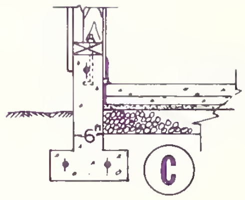

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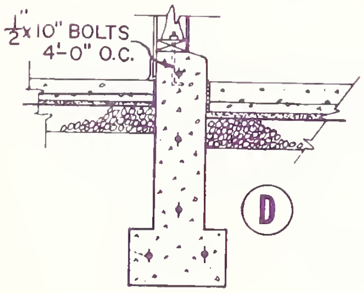

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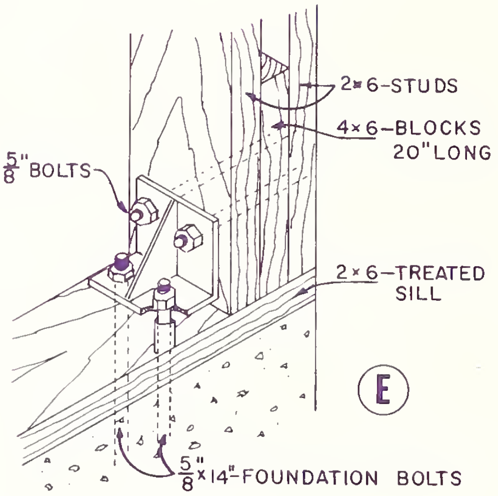

E

To facilitate cleaning and to reduce water contact with the wall lining, the exterior walls of the building are placed on curbs above the interior floor. This is shown in details A and C.

Differential settlement between floor sections may be prevented by keying the sections during the pouring operation, as shown in detail B.

The difference in thickness between the floor slab for the processing room and office is indicated in detail D.

Diaphragm design requires particular attention to anchorage of the shear elements to prevent over-turning. This is readily apparent in detail E, which shows an end-wall anchor bracket. In addition, clearance is provided around the anchor-bracket bolts where they pass through the sill. Normal sill bolts are still required for sliding resistance.

This egg-processing plant design, layout, and working drawings were developed by the Transportation and Facilities Research Division, U.S. Department of Agriculture, in cooperation with the University of California, Davis. They are made available through the cooperative Farm Building Plan Exchange of the Agricultural Engineering Research Division, U.S. Department of Agriculture.

Agricultural Engineering Research Division AGRICULTURAL RESEARCH SERVICE

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